nners

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Design Services for the

King County International Airport Runway 13L-31R Overlay

RFP No. E93066E

engineers



Consulting engineering firm

- Airports
- Roadways
- Survey
- Energy and communications
- Land development

Anchored in the Northwest sin

- Washington (headquarters)
- Oregon
- · Idaho
- 275 employees
 - •52 professional engineers
 - Vast airport experience



whpacific.com

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W&H ACTEIC

968

Specialized Experience and Technical Competence



FAA

Civil Engineer Karen Miles, P.E.

W&H Pacific

Project Manager Mark Napier, P.E. **W&H Pacific**

QA/QC

Rainse Anderson, P.E.

Topographic Survey

W&H Pacific

Project Surveyor

Larry Signani, P.L.S.

Crew Chief Jack Goltiani Geotechnical Investigations Construction Testing

GN Northern

Engineering Geologist Amjad Khan, P.G.

Construction Testing Wiley Yeakey

Civil Design

W&H Pacific

Project Engineer David Williams, P.E.

Civil Designer Lorelei Olmscheid, E.I.T.

Civil Engineer

Mark Van Wormer, P.E.

Construction Management

Construction Manager

Sam Richard CMTS, Inc.

W&H Pacific

Construction Inspector
Wayne Lowell

Electrical Inspector, Henry Penselin

Electrical Design

Elcon As Electrical Gerry Schr

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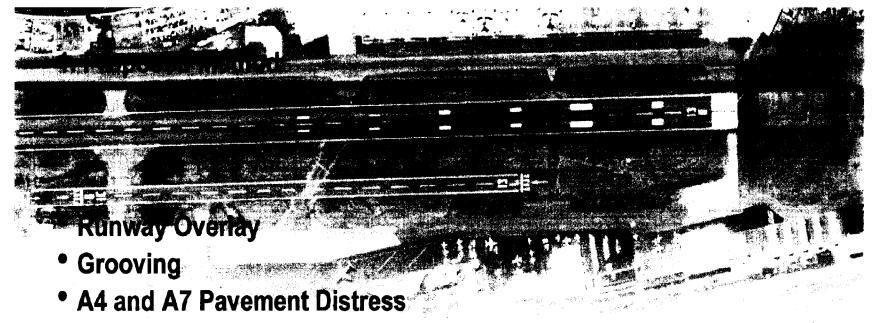
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- A4 Alignment
- Threshold Displacements
- REILs and Signs
- Construction Phasing



- Runway Overlay
 - Issues
 - -Surface preparation
 - -Grade tolerances, existing to finished
 - -Mix design



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- A4 and A7 Pavement Distress
 - Issues
 - -Wheel path settlement



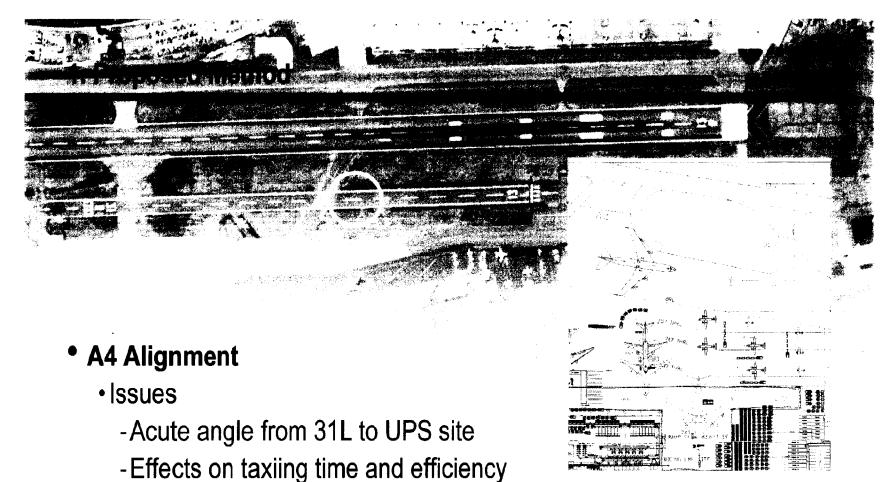
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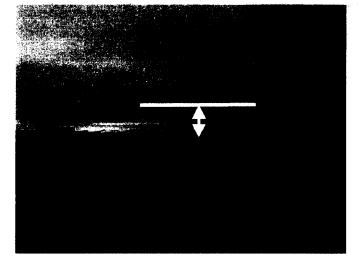




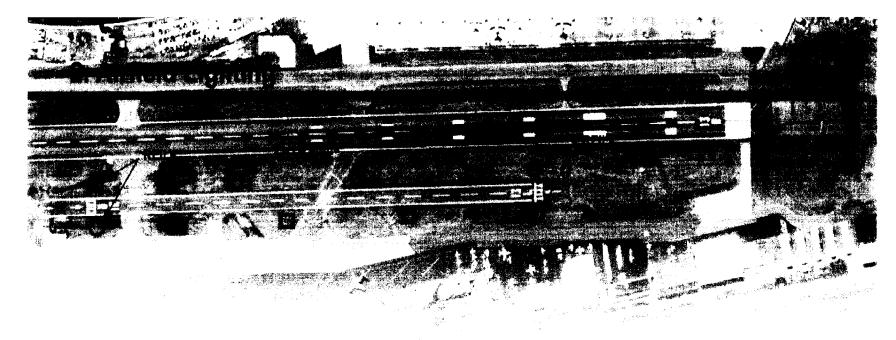
- Effects of turning upon pavement performance
- -Coordination with UPS improvements



- Critical aircraft at A1 holding position and 13L threshold location
- -relocation of VASIs, should threshold location change
- -Replace VASIs with PAPIs



SEA403493



• REILs and Signs

- Issues
 - -Two sets of DTG signs required due to threshold displacements
 - -Increased load on runway lighting circuit
 - -REIL controls





-Coordination with users during design and construction

 Coordination between contractor and consultant team



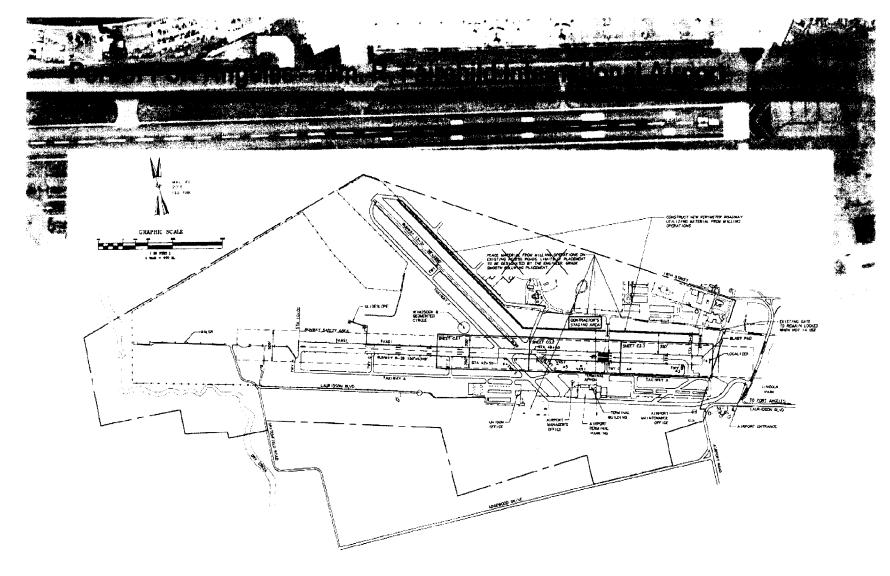
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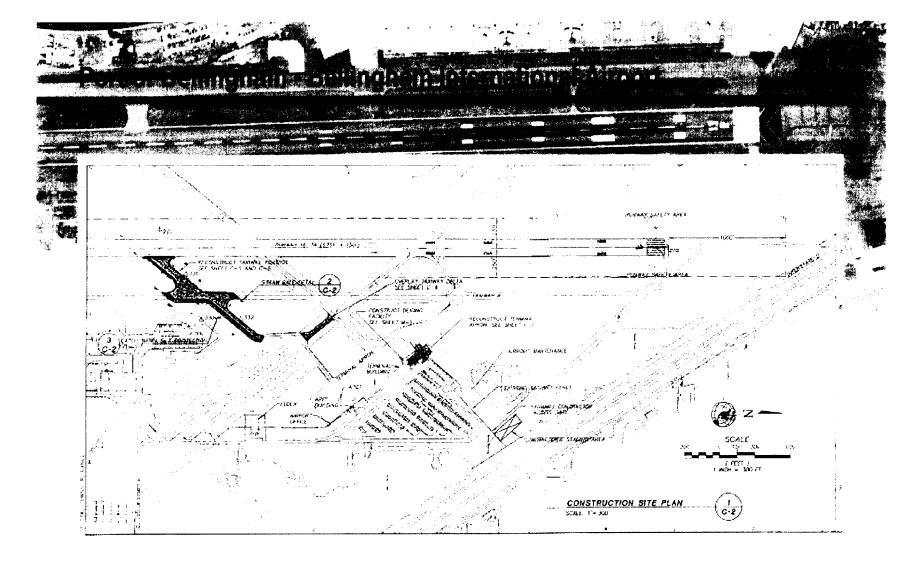
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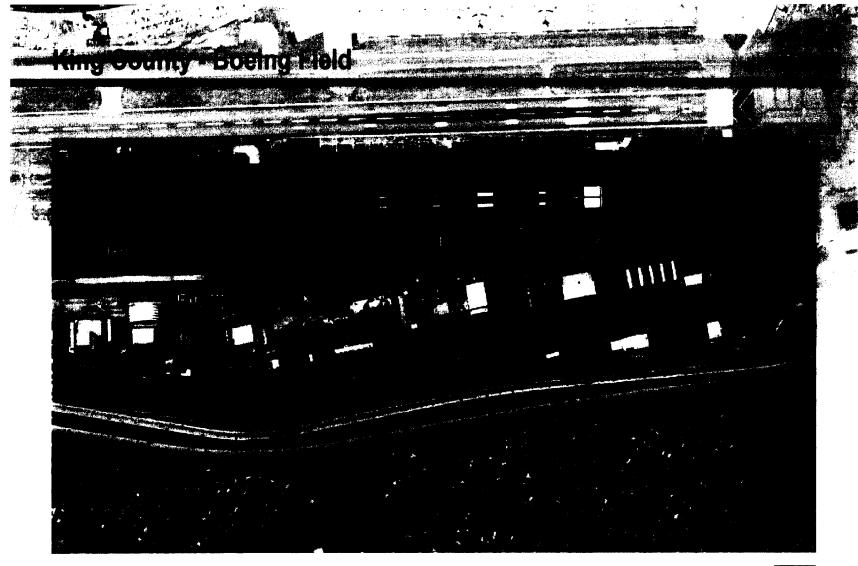
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3. Project Challenges

Ingineering Contract Approval		Jun	Jul	Aug	Sep	Oct	Nov	Dec
Ingineering Contract Approval	May ■	Jun	Jul	Aug	ССР		1404	
Schematic Design								
DBE Goals & Approval								
Construction Documents								
AA & King County Review & Approval								
Construction Bidding		:						
Grant Application, Offer & Award	-							
Preconstruction Conference		!						
Construction			and the second					
Surface Preparation & Taxiway Crossings								
Overlay & Initial Markings								
Runway Grooving & Final Markings								
Electrical							18.02 (4.00)	
inal Inspection & Punchlist								
inal Report & Closeout					, mbia ma			
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W&H Pacific Team Benefits

- Vast airport project management and construction management experience
- Successful construction phasing at airports
- Strong working relationship with FAA
- Professional airport engineers ready and eager to work on your project



